

IN THE CLAIMS:

Claims pending

- At time of the Action: Claims 1-24.
- After this Response: Claims 1-11, 13-23.

Currently Amended claims: Claims 1, 9 and 13-17.

Currently Canceled claims: Claim 12 and 24.

1. (Currently Amended) A computer-readable medium ~~storing on tangible data storage, the computerized readable medium having thereon~~ computer-executable instructions for performing a method on a computing device comprising:

receiving at least one network attachment point change event subscription from at least one network attachment point change event subscriber, network attachment point change events comprising an indication of a change in a network address of a device on a network from a first network attachment point having a first network attachment point identifier to a second network attachment point having a second network attachment point identifier;

receiving at least one network attachment point change event publication from at least one network attachment point change event publisher; and

for each network attachment point change event publication matching a network attachment point change event subscription, notifying the network attachment point change event subscriber of the matching published network attachment point change event, wherein an application layer refers to the second

attachment point on the network by using the first network attachment point identifier.

2. (Original) The computer-readable medium of claim 1, wherein each network attachment point change event publication comprises: identification of an original network attachment point; and identification of a current network attachment point different from the original network attachment point.

3. (Original) The computer-readable medium of claim 2, wherein each identification of a network attachment point comprises an Internet protocol (IP) address.

4. (Original) The computer-readable medium of claim 1, wherein each network attachment point change event subscription comprises identification of a network attachment point that has attached a communications peer with which the network attachment point change event subscriber has at least one active communication connection.

5. (Previously Presented) The computer-readable medium of claim 1, wherein the at least one network attachment point change event publication comprises:

a first network attachment point change event publication from a first network attachment point change event publisher; and

a second network attachment point change event publication from a second network attachment point change event publisher; and

matching the first network attachment point change event to each network attachment point change event subscription comprises:

determining that the network attachment point change event subscription was placed by the second network attachment point change event publisher; and

determining that the second network attachment point change event occurred within a time interval of the first network attachment point change event.

6. (Original) The computer-readable medium of claim 1, wherein matching the network attachment point change event to the network attachment point change event subscription comprises determining that the network attachment point change event subscription was placed by a subscriber with a private network address.

7. (Original) The computer-readable medium of claim 1, wherein the method further comprises, for each network attachment point change event subscriber, determining if the network attachment point change event subscriber has a private network address.

8. (Original) The computer-readable medium of claim 7, wherein:
each network attachment point change event subscription comprises a network attachment point change event subscriber notification address; and

determining if the network attachment point change event subscriber has a private network address comprises determining if the network attachment point change event subscriber notification address is in accord with the public source of the network attachment point change event subscription.

9. (Currently Amended) A computer-readable medium ~~storing on tangible data storage, the computerized readable medium having thereon~~ computer-executable instructions for performing a method on a computing device comprising:

sending a subscribe message to a virtual connectivity subscribe-notify service subscribing to at least one network attachment point change event published by a remote peer, the at least one network attachment point change event comprising a change in a network address of the remote peer; and

receiving a notify message from the virtual connectivity subscribe-notify service notifying of a network attachment point change event published by a remote peer.

10. (Original) The computer-readable medium of claim 9, the method further comprising sending a publish message to the virtual connectivity subscribe-notify service publishing a network attachment point change event.

11. (Original) The computer-readable medium of claim 10, wherein the publish message comprises:

an identifier of a previous network attachment point; and
an identifier of a current network attachment point.

12. (Canceled)

13. (Currently Amended) The computer-readable medium of claim [[12]] 9, wherein the notify message comprises:

an identifier of a previous network attachment point of the remote peer; and
an identifier of a current network attachment point of the remote peer.

14. (Currently Amended) The computer-readable medium of claim 9, the method further comprising:

sending a publish message to the virtual connectivity subscribe-notify service publishing a local network attachment point change event; ~~and~~
~~as a result of publishing the local network attachment point change event,~~
~~receiving a notify message from the virtual connectivity subscribe-notify service~~
~~notifying of a network attachment point change event published by a remote peer.~~

15. (Currently Amended) The computer-readable medium of claim 9, wherein:

the virtual connectivity subscribe-notify service is located in a public address space; and

the subscribe message is sent from a private address space; ~~and~~
~~the method further comprises receiving, as a result of the subscribe message~~
~~having been sent from a private address space, a notify message from the virtual~~
~~connectivity subscribe-notify service notifying of a network attachment point~~
~~change event published by a remote peer.~~

16. (Currently Amended) The computer-readable medium of claim 9, the method further comprising:

~~receiving a notify message from the virtual connectivity subscribe-notify service notifying of a network attachment point change event published by a remote peer; and~~

as a result of receiving the notify message, sending a Connection Update Request message to the remote peer requesting a Connection Update message from the remote peer.

17. (Currently Amended) A computerized system comprising:
a virtual connectivity subscribe-notify service match module configured to, at least, search a network attachment point change event subscription database for a network attachment point change event subscription that matches a first network attachment point change event, the first network attachment point change event comprising a change in a network address of a device on a network; and
a virtual connectivity subscribe-notify service publish module configured to, at least, receive a network attachment point change event publish message.

18. (Original) The computerized system of claim 17, wherein each network attachment point change event comprises:

a previous network attachment point identifier; and
a current network attachment point identifier.

19. (Original) The computerized system of claim 18, wherein the network attachment point change event subscription comprises:

a network attachment point identifier; and
a notification address.

20. (Original) The computerized system of claim 19, wherein the network attachment point change event subscription matches the first network attachment point change event if, at least, the network attachment point identifier of the network attachment point change event subscription identifies the same network attachment point as the network attachment point identified by the previous network attachment point identifier of the first network attachment point change event.

21. (Original) The computerized system of claim 19, wherein the network attachment point change event subscription matches the first network attachment point change event if, at least:

the network attachment point identifier of the network attachment point change event subscription identifies the same network attachment point as the network attachment point identified by the previous network attachment point identifier of the first network attachment point change event; and

the notification address of the network attachment point change event subscription is associated with a private address space.

22. (Original) The computerized system of claim 19, wherein the network attachment point change event subscription matches the first network attachment point change event if, at least:

the network attachment point identifier of the network attachment point change event subscription identifies the same network attachment point as the

network attachment point identified by the previous network attachment point identifier of the first network attachment point change event; and

the previous network attachment point identifier of a second network attachment point change event corresponds to the notification address of the network attachment point change event subscription.

23. (Original) The computerized system of claim 17, wherein the virtual connectivity subscribe-notify service match module is further configured to, at least, cause the generation of a network attachment point change event notification for each network attachment point change event subscription that matches the first network attachment point change event.

24. (Canceled)